-continued SCHEME 3

$$R_1 = CH_3(CH_2)_7CH = CH(CH_2)_8 - O$$

$$CH_3(CH_2)_7CH = CH(CH_2)_8 - O$$

$$CH_2 - CH_2 - CH_2 - O$$

 $\begin{array}{c} R_1-O-CH_2 \\ R_2-O-CH \\ CH_2-N^+-(CH_2)_q-X_{1-16} \\ Z_2 \end{array}$

$$\begin{split} R_2 &= \text{FLUORESCENT DYES} \\ & \text{INTERCALATORS} \\ & \text{REPORTER MOLECULES} \\ & \text{BIOTIN} \\ & \text{POLYSACCHARIDES} \\ & \text{MONOSACCHARIDES} \\ & \text{SOLID SUPPORT} \end{split}$$

MAGNETIC BEADS

wherein R_1 and R_2 independently of another, are C_{1-23} alkyl or

$$\begin{array}{c} O \\ \parallel \\ -C - C_{1-2} \end{array}$$

SCHEME 4

$$\begin{array}{c} \text{CH}_{3}(\text{CH}_{2})_{7}\text{CH} = \text{CH}(\text{CH}_{2})_{8} - \text{O} \\ & \begin{array}{c} \text{CH}_{3} \\ & \\ \text{I} \\ & \\ \text{CH}_{3} \end{array} \\ \text{CH}_{3}(\text{CH}_{2})_{7}\text{CH} = \text{CH}(\text{CH}_{2})_{8} - \text{O} \\ & \begin{array}{c} \text{CH}_{3} \\ & \\ \text{I} \\ & \\ \text{CH}_{3} \end{array} \\ \text{NH} - \text{C(O)} - (\text{CH}_{2})_{n} - \text{C(O)} - \text{NH} - (\text{R)} \\ \end{array}$$

R = POLYLYSINE
POLYAMINE ACID
POLYPEPTIDE
PROTEIN
FLUORESCENT DYES
INTERCALATERS
REPORTER MOLECULES
POLYAMINE

$$CH_{3}(CH_{2})_{7}CH = CH(CH_{2})_{8} - O$$

$$CH_{3}$$

$$CH_{3}(CH_{2})_{7}CH = CH(CH_{2})_{8} - O$$

$$CH_{3}$$

$$N+$$

$$C$$

R = POLYPEPTIDE PROTEIN FLUORESCENT DYES INTERCALATORS REPORTER MOLECULES

We claim:

1. A composition having the structure

alkyl or alkenyl,

Z₁ and Z₂ independently of one another, are H or
unbranched alkyl C₁₋₆, q is 1 to 6,

X is selected from any of X₁-X₈, X₁₅ and X₁₆ where